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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/529,543	04/14/2000	EUGEN SCHWARZ	MERCK-2084	3926	
23599	7590 12/23/2002				
MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400 ARLINGTON, VA 22201			EXAM	EXAMINER	
			TRAN, SUSAN T		
			ART UNIT	PAPER NUMBER	
			1615		
			DATE MAILED: 12/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/529,543	SCHWARZ ET AL.			
		Examin r	Art Unit			
	•	Susan Tran	1615			
	The MAILING DATE fthis communication app	ì				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	Recognitive to communication(s) filed on (1)	luly 2002				
1)⊠	Responsive to communication(s) filed on $\underline{01J}$. This action is FINAL . 2b) \boxtimes Th	is action is non-final.				
2a)☐	,		ters, prosecution as to the merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
•	on of Claims					
-	Claim(s) 1-25 is/are pending in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	5) Claim(s) is/are allowed.					
•	6)⊠ Claim(s) <u>1-25</u> is/are rejected.					
,	7) Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/or for Papers	r election requirement.				
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Pri rity under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)			

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DETAILED ACTION

Receipt is acknowledged of applicant's Request for Continued Prosecution Application, Declaration Under 37 CFR§1.312, Preliminary Amendment, and Notice of Withdrawal of Appeal filed 07/01/02.

Continued Prosecution Application

The request filed on 07/01/02 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/529,543 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 24 and 25 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. It appears that applicant's specification does not provide support for the phrase "substantially homogenous distribution" or "solution is substantially homogeneous". Further clarification is suggested.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 23 and 24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 23 is indefinite because it is unclear if step b1 and step b2 happen together or in an alternative manner. It appears from applicant's specification page 5, that the steps are practiced in an alternative manner. Further clarification is requested.

Claim 24 recites the limitation "at least one particle" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 24 is indefinite in the use of the phrase "an aid". Is it a "tabletting aid"?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1, 2, 4, 5, 6, 7, 9, 12, 13, 19-21, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Virtanen et al. US 5,536,526.

Virtanen teaches compositions comprising about 94% to 98% by weight of xylitol and bout 1% to about 5% by weight of acceptable polyol other than xylitol, e.g., mannitol, lactitol, sorbitol, maltitol and isomalt (column 5, lines 39-53). The composition

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can be prepared by agglomerating xylitol with polyol based syrup, granulating, drying in a fluidized bed to a water content of less than about 1%, and then directly compress into tablet (columns 6-8, and example 2).

Claims 1, 2, 4, 5, 9, 12-16, 18, and 21-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Olinger et al. US 5,204,115.

Olinger teaches compositions comprising about 95% to 99% xylitol, sweetener, e.g., saccharin, acesulfame K, cyclamate, or sucralose; and about 0.1% to about 5% of other polyol, e.g., mannitol, lactitol, sorbitol, maltitol, and isomalt (column 6, lines 53 through column 7, lines 16-22). The composition further comprises water-soluble additions, e.g., polydextrose containing citric acid (column 7, lines 51-55). Example 2 shows that xylitol was mixed with polydextrose syrup and water, the resulting wet granulate was placed in a fluidized bed at temperature of 50°C to obtain granule having moisture content of less than about 0.5%.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-16, and 18-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwarz et al. US 5,958,471 in view of Virtanen et al.

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Schwarz teaches compositions comprising at least two polyols by co-spray-drying, wherein the composition comprises less than 10% mannitol (column 1, lines 51-65). The composition further comprises additives, such as citric acid sweetener, citric acid, or vitamins (columns 2-3). The composition is suitable for direct compacted articles, including tablet (column 3, lines 64-67). The composition is obtained by dissolving at least two polyols in aqueous solution and spraying the resulting aqueous solution in an air stream having temperature ranging from 120-300°C, the resulting is dried via a fluidized bed, wherein the mixture having water content of lower than 1% (columns 2-4, and examples).

Schwarz does not specifically teach the claimed ratios of the two polyols.

Virtanen teaches compositions comprising about 94% to 98% by weight of xylitol and bout 1% to about 5% by weight of acceptable polyol other than xylitol, e.g., mannitol, lactitol, sorbitol, maltitol and isomalt (column 5, lines 39-53). Thus, it would have been *prima facie* obvious for one of ordinary skill in the art to use Schwarz's process to prepare Virtanen's composition with the expectation of at least similar results, because the references teach the advantageous results in the use of polyols, including xylitol to obtain a useful tabletting aid having suitable hardness, friability and acceptable mouth feel.

Claims 1, 2, 4, 5, 9, 12-18, and 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olinger et al., and Mizumoto et al. US 5,576,014.

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Olinger is relied upon for the reason stated above. Olinger is silent as to the teaching of pharmaceutical additives, e.g., antiacid or analgesic agents (claim 17).

Mizumoto teaches compositions comprising xylitol, lactose, mannitol, glucose, sucrose, or sorbitol (column 6, lines 37-46). The composition further comprises pharmaceutical agents, such as analgesics and antacid (column 7, lines 62 through column 9, lines 1-43). Thus, it would have been *prima facie* obvious for one of ordinary skill in the art to combine Olinger's xylitol compressible composition with pharmaceutical agents of Mizumoto, because the references teach the advantageous of compressible tablet useful in pharmaceutical art.

Pertinent Arts

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Maul et al., and Yokoi et al are cited as being of interest for the teachings of xylitol as a useful component in compressible tablet.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Tran whose telephone number is (703) 306-5816. The examiner can normally be reached on Monday through Thursday from 6:00 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page, can be reached on (703) 308-2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3592.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

THURMAN K. PAGE SUPERVISORY PAYENT EXAMINER TECHNOLOGY (GYLORY 1600